

Butler County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 6/8/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 22 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Butler County economy.¹

These 22 sectors have a total direct output of approximately \$339.4 million and support 2,142 jobs in Butler County. Running the model for all 22 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Butler County Economy									
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output⁵	Output % of Gross Regional Product			
Direct Effect	2141.7	7.23%	\$89,289,838	4.29%	\$339,399,885	16.32%			
Indirect Effect	891.9	3.01%	\$26,575,329	1.28%	\$64,386,852	3.10%			
Induced Effect	331.2	1.12%	\$22,779,173	1.10%	\$41,581,951	2.00%			
Total Effect	3364.8	11.36%	\$138,644,340	6.66%	\$445,368,688	21.41%			

As shown in the above table, agriculture, food, and food processing sectors support 3,365 jobs, or 11.36% of the entire workforce in the county. These sectors provide a total economic contribution of approximately \$445.4 million, roughly 21.41% of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 22 agriculture, food, and food processing sectors is approximately \$138.6 million, or 6.66% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 6.66% of the total economy.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **1,074 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Butler County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment					
Sector	Total Employment	Total Output			
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1,074.1	\$158,090,324			
Support activities for agriculture and forestry	612.3	\$10,972,325			
Landscape and horticultural services	404.3	\$21,117,024			
Veterinary services	153.7	\$15,069,148			
Grain farming	104.7	\$47,998,982			
Commercial hunting and trapping	82.6	\$1,673,287			
Animal production, except cattle and poultry and eggs	74.9	\$11,515,374			
Real estate	71.5	\$7,897,826			
All other crop farming	66.2	\$6,252,317			
Wholesale trade	46.7	\$10,279,520			

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately \$158.1 million to the Butler County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output					
Sector	Total Employment	Total Output			
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1,074.1	\$158,090,324			
Grain farming	104.7	\$47,998,982			
Oilseed farming	19.4	\$24,936,800			
Landscape and horticultural services	404.3	\$21,117,024			
Fertilizer mixing	30.0	\$19,453,791			
Veterinary services	153.7	\$15,069,148			
Dairy cattle and milk production	28.5	\$13,803,611			
Petroleum refineries	2.4	\$12,209,176			
Animal production, except cattle and poultry and eggs	74.9	\$11,515,374			
Support activities for agriculture and forestry	612.3	\$10,972,325			

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Butler County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	19.4	\$24,936,800.42		
Grain farming	104.7	\$47,998,982.27		
Vegetable and melon farming	0.6	\$143,497.14		
Fruit farming	3.1	\$320,653.56		
Tree nut farming	0.5	\$109,353.03		
Greenhouse, nursery, and floriculture production	5.0	\$817,949.43		
Cotton farming	0.6	\$173,173.62		
All other crop farming	66.2	\$6,252,316.58		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	1074.1	\$158,090,324.10		
Dairy cattle and milk production	28.5	\$13,803,611.44		
Poultry and egg production	1.0	\$956,479.65		
Animal production, except cattle and poultry and eggs	74.9	\$11,515,373.76		
Commercial logging	40.3	\$1,760,008.06		
Commercial hunting and trapping	82.6	\$1,673,286.58		
Animal, except poultry, slaughtering	11.1	\$8,234,473.38		
Bread and bakery product, except frozen, manufacturing	32.2	\$3,790,394.99		
Frozen cakes and other pastries manufacturing	2.2	\$340,444.53		
Breweries	3.4	\$1,895,428.44		
Wineries	3.7	\$1,131,890.12		
Fertilizer mixing	30.0	\$19,453,791.17		
Veterinary services	153.7	\$15,069,147.84		
Landscape and horticultural services	404.3	\$21,117,024.05		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Butler County, the retail sector was omitted.